		Aeronautics Educat					
2005 Mathematics							
Content Standards							
Hawaii Mathematics							
Grade 2	0.1	0, 1, 1					
Activity/Lesson	State	Standards					
			Identify appropriate units for measuring length,				
Air Engines (12-16)	HI	MA.2.MA.2.4.2	area, capacity, and weight				
			Pose questions, collect data, and display the				
Air Francis (40, 40)		NAA O NAA O 44 4	data using a graph (e.g., bar graphs,				
Air Engines (12-16)	HI	MA.2.MA.2.11.1					
			Pose questions, collect data, and display the				
Deter Meter (CO 75)		MA 2 MA 2 44 4	data using a graph (e.g., bar graphs,				
Rotor Motor (69-75)	HI	MA.2.MA.2.11.1					
			Interpret data displayed in a bar graph and				
Deter Meter (CO 75)		MA 2 MA 2 42 4	describe how the important features of the data				
Rotor Motor (69-75)	HI	MA.2.MA.2.12.1	set are represented in a bar graph				
Eliabt: Interdisciplinant			Lies cardinal directions that describe the leasting				
Flight: Interdisciplinary Learning Activities (76-			Use cardinal directions that describe the location				
•		MA 2 MA 2 8 1	of an object or place (i.e., north, south, east, or				
79) Where is North? The	HI	MA.2.MA.2.8.1	west) on a coordinate map				
			Pose questions, collect data, and display the				
Compass Can Tell Us	ш	MA 2 MA 2 11 1	data using a graph (e.g., bar graphs,				
(87-90)	HI	MA.2.MA.2.11.1	pictographs) Use cardinal directions that describe the location				
Dian to Fly Thora (07							
Plan to Fly There (97-	ш	MA.2.MA.2.8.1	of an object or place (i.e., north, south, east, or				
106)	HI	IVIA.2.IVIA.2.0. I	west) on a coordinate map Pose questions, collect data, and display the				
Dunkad Nankin / 17							
Dunked Napkin (17-	ш	MA 2 MA 2 11 1	data using a graph (e.g., bar graphs,				
22)	HI	MA.2.MA.2.11.1	pictographs) Interpret data displayed in a bar graph and				
Dunked Napkin (17-			describe how the important features of the data				
22)	HI	MA 2 MA 2 12 1	set are represented in a bar graph				
Paper Bag Mask (23-	1 11	IVIA.2.IVIA.2. 12. 1	Identify appropriate units for measuring length,				
28)	н	MA.2.MA.2.4.2	area, capacity, and weight				
Paper Bag Mask (23-	1 11	IVIA.2.IVIA.2.4.2	Recognize line symmetry in plane figures and				
28)	HI	MA.2.MA.2.6.2	create pictures with line symmetry				
20)	1 11	IVIA.Z.IVIA.Z.U.Z	Pose questions, collect data, and display the				
Paper Bag Mask (23-			data using a graph (e.g., bar graphs,				
28)	н	MA.2.MA.2.11.1					
Wind in Your Socks)	1 11	IVIA.2.IVIA.2.11.1	Identify appropriate units for measuring length,				
(29-35)	н	MA.2.MA.2.4.2	area, capacity, and weight				
(29-33)	1 11	IVIA.2.IVIA.2.4.2	Pose questions, collect data, and display the				
Wind in Your Socks)			data using a graph (e.g., bar graphs,				
(29-35)	н	MA.2.MA.2.11.1	pictographs)				
(20-00)	1 11	Ινιπ.Ζ.Ινιπ.Ζ. Ι Ι . Ι	Pose questions, collect data, and display the				
			data using a graph (e.g., bar graphs,				
Bag Balloons (40-43)	н	MA.2.MA.2.11.1					
Day Dalloons (TO-TO)		IVI/A.Z.IVI/A.Z. I I . I	Pose questions, collect data, and display the				
			data using a graph (e.g., bar graphs,				
Sled Kite (44-51)	HI	MA.2.MA.2.11.1					
SIGGINIC (TT-01)		IVI/A.Z.IVI/A.Z. I I . I	protographio)				
		Δeronautics Educat	or Guide				
Aeronautics Educator Guide							

		2005 Mathemat	
	1	Content Standa	urds
Hawaii Mathematics			
Grade 3	2		
Activity/Lesson	State	Standards	
			Measure length, capacity, and weight in U.S.
			customary and metric units (e.g., pound,
Air Engines (12-16)	HI	MA.3.MA.3.4.3	kilogram)
			Select appropriate tools for measuring length,
Air Engines (12-16)	HI	MA.3.MA.3.4.5	capacity, and weight
			Pose questions, collect data using surveys, and
Air Engines (12-16)	HI	MA.3.MA.3.11.1	organize the data into tables and graphs
			Pose questions, collect data using surveys, and
Rotor Motor (69-75)	HI	MA.3.MA.3.11.1	organize the data into tables and graphs
Flight: Interdisciplinary			
Learning Activities (76-			Estimate and determine the elapsed time
79)	HI	MA.3.MA.3.4.4	between two events or times
Where is North? The			
Compass Can Tell Us			Pose questions, collect data using surveys, and
(87-90)	HI	MA.3.MA.3.11.1	organize the data into tables and graphs
Plan to Fly There (97-			Estimate and determine the elapsed time
106)	HI	MA.3.MA.3.4.4	between two events or times
We Can Fly, You and			
I: Interdisciplinary			Estimate and determine the elapsed time
Learning (107-108)	HI	MA.3.MA.3.4.4	between two events or times
Dunked Napkin (17-			Predict and confirm the result of flipping, sliding,
22)	HI	MA.3.MA.3.6.1	and turning shapes
Dunked Napkin (17-			Pose questions, collect data using surveys, and
22)	HI	MA.3.MA.3.11.1	organize the data into tables and graphs
			Interpret data (e.g., tallies, chart, tables, bar
Dunked Napkin (17-			graphs, line plots) and state what the
22)	н	MA.3.MA.3.12.1	representation shows about the set of data
		100 (10.100 (10.12.1	Make reasonable predictions concerning the
Dunked Napkin (17-			likelihood of an event occurring (e.g., certain,
22)	н	MA.3.MA.3.14.1	likely, unlikely, impossible)
		100 (10.100 (10.14.1	Measure length, capacity, and weight in U.S.
Paper Bag Mask (23-			customary and metric units (e.g., pound,
28)	н	MA.3.MA.3.4.3	kilogram)
Paper Bag Mask (23-		100 (10.100 (10.14.0	Select appropriate tools for measuring length,
28)	н	MA.3.MA.3.4.5	capacity, and weight
Paper Bag Mask (23-	111	WA.5.WA.5.4.5	Predict and confirm the result of flipping, sliding,
28)	н	MA.3.MA.3.6.1	and turning shapes
Paper Bag Mask (23-	111	IVIA.3.IVIA.3.0.1	Pose questions, collect data using surveys, and
28)	н	MA.3.MA.3.11.1	organize the data into tables and graphs
20)	111	IVIA.3.IVIA.3.11.1	Make reasonable predictions concerning the
Paper Rag Mack (22			likelihood of an event occurring (e.g., certain,
Paper Bag Mask (23-	ш	NAV 2 NAV 2 44 4	_ · ·
28)	HI	MA.3.MA.3.14.1	likely, unlikely, impossible)
Mind in Varia Castra			Measure length, capacity, and weight in U.S.
Wind in Your Socks)		NAA O NAA O A O	customary and metric units (e.g., pound,
(29-35)	HI	MA.3.MA.3.4.3	kilogram)
Wind in Your Socks)		NAA O NAA O 4 -	Select appropriate tools for measuring length,
(29-35)	HI	MA.3.MA.3.4.5	capacity, and weight

Mindin Vous Cooks	1		Descriptions called data value assumes and					
Wind in Your Socks)			Pose questions, collect data using surveys, and					
(29-35)	HI	MA.3.MA.3.11.1	5 1					
			Make reasonable predictions concerning the					
			likelihood of an event occurring (e.g., certain,					
Right Flight (52-59)	HI	MA.3.MA.3.14.1						
			Make reasonable predictions concerning the					
Delta Wing Glider (60-			likelihood of an event occurring (e.g., certain,					
68)	HI	MA.3.MA.3.14.1	likely, unlikely, impossible)					
		Aeronautics Educat	or Guide					
2005 Mathematics								
		Content Standa	ards					
Hawaii Mathematics								
Grade 4								
Activity/Lesson	State	Standards						
			Select and apply appropriate customary and					
			metric units and tools to measure length,					
			perimeter, and area for the degree of accuracy					
Air Engines (12-16)	н	MA.4.MA.4.4.2	needed					
/gee (: _ : e)			Pose questions, collect data using observations					
			and experiments, and organize the data into					
Air Engines (12-16)	н	ΜΔ 4 ΜΔ 4 11 1	tables or graphs					
All Linglines (12-10)	111	IVIA.4.IVIA.4.11.1	Pose questions, collect data using observations					
			and experiments, and organize the data into					
Dotor Motor (60.75)	ш	NAA A NAA A 11 1						
Rotor Motor (69-75)	HI	IVIA.4.IVIA.4.11.1	tables or graphs					
Malda a Tias a Flor (00			Pose questions, collect data using observations					
Making Time Fly (80-			and experiments, and organize the data into					
86)	HI	MA.4.MA.4.11.1	tables or graphs					
Where is North? The			Pose questions, collect data using observations					
Compass Can Tell Us			and experiments, and organize the data into					
(87-90)	HI	MA.4.MA.4.11.1	tables or graphs					
			Pose questions, collect data using observations					
Dunked Napkin (17-			and experiments, and organize the data into					
22)	HI	MA.4.MA.4.11.1	tables or graphs					
Dunked Napkin (17-			Propose and justify conclusions/predictions					
22)	HI	MA.4.MA.4.13.1	based on data					
			Select and apply appropriate customary and					
			metric units and tools to measure length,					
Paper Bag Mask (23-			perimeter, and area for the degree of accuracy					
28)	HI	MA.4.MA.4.4.2	needed					
			Predict and confirm the results of putting					
Paper Bag Mask (23-			together and taking apart two- and three-					
28)	н	MA.4.MA.4.5.4	dimensional shapes					
- <i>'</i>			Pose questions, collect data using observations					
Paper Bag Mask (23-			and experiments, and organize the data into					
28)	н	MA.4.MA.4.11.1						
Paper Bag Mask (23-	1 11	IVIA.4.IVIA.4.11.1	Propose and justify conclusions/predictions					
, , ,	ш		1					
28)	HI	MA.4.MA.4.13.1						
			Select and apply appropriate customary and					
Minalia Varis Ossis			metric units and tools to measure length,					
Wind in Your Socks)		NAA 4 NAA 4 4 9	perimeter, and area for the degree of accuracy					
(29-35)	HI	MA.4.MA.4.4.2	needed					

			Pose questions, collect data using observations
Wind in Your Socks)			and experiments, and organize the data into
(29-35)	HI	MA.4.MA.4.11.1	tables or graphs
			Pose questions, collect data using observations
			and experiments, and organize the data into
Right Flight (52-59)	HI	MA.4.MA.4.11.1	tables or graphs
			Propose and justify conclusions/predictions
Right Flight (52-59)	HI	MA.4.MA.4.13.1	based on data
			Pose questions, collect data using observations
Delta Wing Glider (60-			and experiments, and organize the data into
68)	HI	MA.4.MA.4.11.1	tables or graphs
Delta Wing Glider (60-			Propose and justify conclusions/predictions
68)	HI	MA.4.MA.4.13.1	based on data